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PATENT

Attorney Docket No. MUR-003
(7597/4)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANTS: Farrar et al.
SERIAL NO.: 09/155,708 GROUP NO.: 1635
FILING DATE: April 5, 1999 EXAMINER: Janet L. Epps
TITLE: GENETIC SUPPRESSION AND REPLACEMENT

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SUBMISSION OF PAPER COPY AND/OR COMPUTER READABLE COPY
OF SEQUENCE LISTING FOR INVENTION
CONTAINING NUCLEOTIDE AND/OR AMINO ACID SEQUENCE

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Applicants hereby submit a paper copy and a computer readable copy of the Sequence Listing for the above-identified application. The Sequence Listing submitted herewith is intended to replace the Sequence Listing currently on file.

Applicants amended the Sequence Listing to include the sequences of ribozymes Rz10, Rz20, Rz33, Rz30, Rz31, and Rz907. Support for these amendments can be found in the original specification, for example, at page 21, lines 25-26, page 22, line 23, page 23, lines 34-35, and page 24, line 35. Applicants also amended the Sequence Listing to classify the sequences of SEQ ID NOs. 1-15 and SEQ ID NOs. 18-28 as "Artificial Sequence". Support for these amendments can be found throughout the original specification, for example, at page 35, line 1 to page 36, line 19, page 24, lines 27-31, and pages 44-45, Table 2.

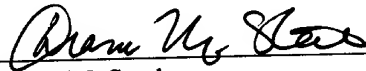
Submission Of Paper Copy And/Or Computer Readable Copy Of
Sequence Listing For Invention Containing Nucleotide And/Or Amino Acid Sequence
Serial No.: 09/155,708
Page 2

I hereby state that the paper copy of the Sequence Listing submitted herewith and the computer-readable copy of the Sequence Listing submitted herewith are the same.

In addition, I hereby state that the Sequence Listing introduces no new matter in the above-identified application.

Respectfully submitted,

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